

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No. : 10/002,080  
Applicant : Kevin S. Stein et al  
Filed : October 31, 2001  
Title : Soft Contact Roll For A  
Single Facer

TC/A.U. : 1733  
Examiner : Todd J. Kilkenny

Docket No. : 4470-00613

DECLARATION OF PRIOR INVENTION PURSUANT TO 37 CFR §1.131

Commissioner of Patents  
P.O. Box 1450  
Arlington, VA 22313-1450

Sir:

I, Dennis L. Lemke, declare as follows:

1. I am a Senior Engineer employed by Marquip LLC, the assignee of the subject application.
2. I am a co-inventor of the subject matter claimed in this application.
3. I and my co-inventor Kevin S. Stein conceived our invention prior to October 9, 2001, the effective prior art date of U.S. Patent 6,602,375 (Marschke).
4. Specifically, attached Marquip drawing entitled "SOFT CONTACT ROLL MOVEMENT" was prepared by co-inventor Kevin Stein prior to October 9, 2001 and shows the positioning of our soft contact roll and corresponds to drawing figures 3 and 4 of our above identified application.
5. In addition, attached Marquip drawing entitled "ROLL INSTL, SF SOFT CONTACT" and numbered 9559095 was prepared by a Marquip draftsman under the supervision of Kevin Stein prior to October 9, 2001 and shows details of the construction of the soft contact roll assembly of our invention.

Appl. No. 10/002,080

Declaration of Previous Invention dated January 7, 2004

Reply to Office action of December 12, 2003

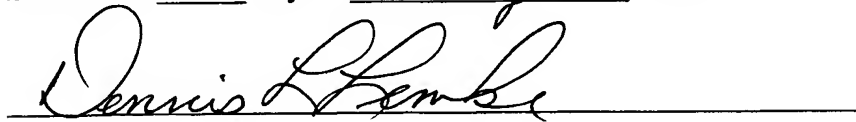
6. The drawings identified in paragraphs 4 and 5 disclose all the elements, their arrangement and operation, as recited in the claims of our above identified patent application.

7. I and my co-inventor, Kevin Stein, worked diligently from a time prior to October 9, 2001 until we actually reduced our invention to practice with an operable prototype.

8. The dates on which each of the above identified drawings was drawn and checked have been hidden, but both dates for each of the drawings are prior to October 9, 2001.

9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated this 10 day of February, 2004.



Dennis L. Lemke

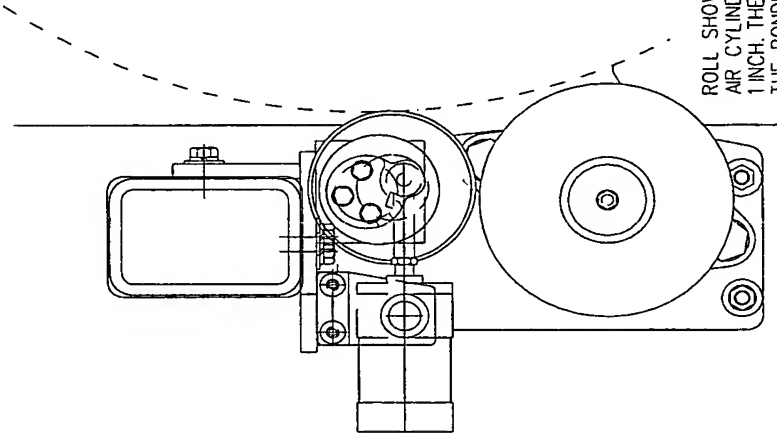
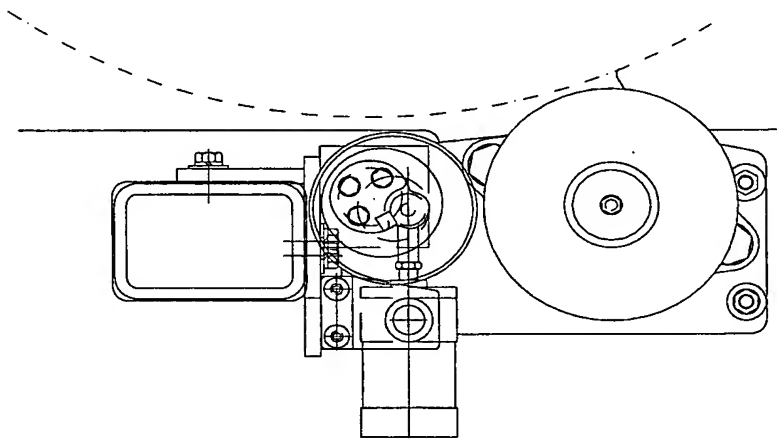
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Atty. Docket No.: 4470-00613

1 2 3 4 5 6 7 8 9 10 11 12 13 14

REVISION		ECO NO.		DATE		APPROVED
REV.	BY	DESCRIPTION				

RETRACTED POSITION

EXTENDED POSITION



ROLL SHOWN IN RETRACTED POSITION. AIR CYLINDER IS RETRACTED PULLING BACK ON CLEVIS WHICH ROTATES PIVOT SHAFT. THE PIVOT SHAFT IS ATTACHED TO AN ECCENTRIC COUPLING ON ONE END AND THE ROLL STUB END ON THE OTHER. THE ECCENTRIC OF THE COUPLING ALLOWS THE ROLL

ROLL SHOWN IN EXTENDED POSITION. AIR CYLINDER IS EXTENDED APPROX 1 INCH. THE ROLL RIDES UP AGAINST THE BONDING ROLL WITH LIGHT LOADING (~5PLI).

CLASSIFICATION	CONFIDENTIAL	
PROJECT/CLIENT	MARQUIP This document contains CONFIDENTIAL proprietary information which shall NOT be used, reproduced, or disclosed to others without prior written approval of MARQUIP. A Barry-Wehner Company PHILIPS, WI 53054, WI	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:	APPROVALS	DATE
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.XX ±.030 ±.002 in 5"	CHECKED DLL	
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DO NOT SCALE DRAWING		SCALE 1/4
TITLE		SHEET 1 OF 1
SOFT CONTACT ROLL MOVEMENT		INCHES
PATENT 2		TRADE MARK



NOTE:

1. PRINT IS FOR PROPOSE INSTALLATION AND FIELD UPDATES.
2. IF THIS IS AN UPGRADE, THE SOFT CONTACT ROLL WILL COME FULLY ASSEMBLED AND MUST BE PARTIALLY TAKEN APART TO INSTALL. STEPS 3 AND 4 ARE COMPLETED AT MARKUP.
3. INSTALL BUSINESSES 30645

NOTE: THIS CIRCUIT IS FOR BENCH/TEST INSTALLATION AND FIELD UPGRADES

1. THIS PRINT IS FOR INHOUSE INSTALLATION AND FIELD UPGRADES.  
2. IF THIS IS AN UPGRADE, THE SOFT CONTACT ROLL WILL COME FULLY ASSEMBLED AND PARTIALLY TAKEN APART TO INSTALL STEPS 3 AND 4 ARE COMPLETED AT MARQUET.  
3. INSTALL BUSHINGS 30645

WIRE CLIPS, TIGHTEN THE BOLTS IN A SEQUENCE WHICH ALLOWS THE MOUNT TO FIT TIGHTLY AGAINST THE FRAME TUBE.

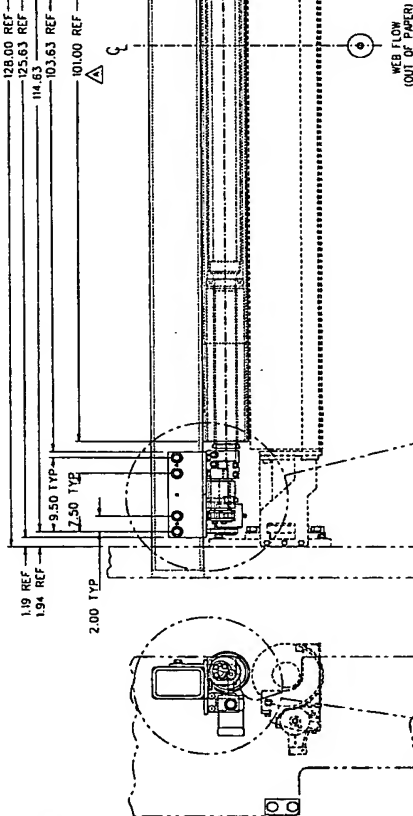
7. PLACE THE ALIGNMENT JCS 9560370 INTO EACH BUSHING AND BRING THE ENDS TOGETHER UNTIL THEY TOUCH.

8. THE ENDS OF THE JCS MUST BE CONCENTRIC WITH EACH OTHER, VERY CLOSE ALIGNMENT. BY ROTATING THE JCS IN THE BUSHING AND RECHECKING THE ALIGNMENT. IF THE JCS

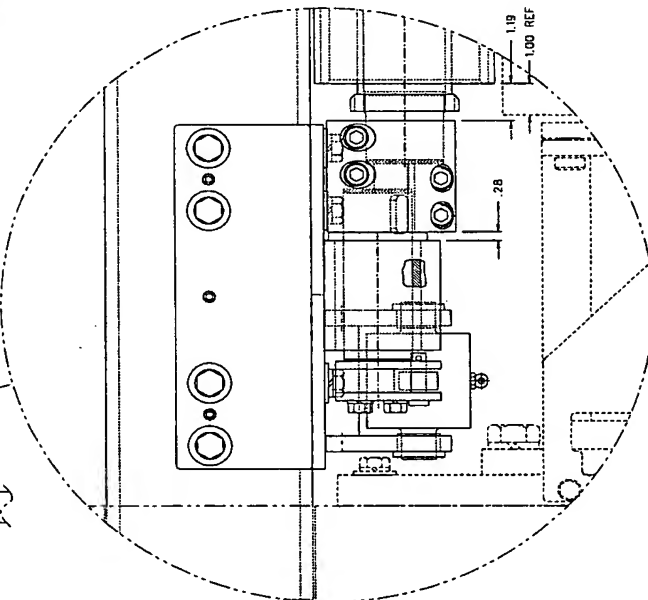
SHOULD STILL BE ALLOWED TO ROTATE IN THE COUPLING.

14. OBTAIN DIMENSIONS ON PRINT FOR DISTANCES BETWEEN ROLL, COUPLINGS AND MOUNTS. WITH BOTH CYLINDERS RETRACTED, ALLOW THE ROLL TO HANG FREELY, USING A LEVEL PLACED VERTICALLY ON THE DOWNSTREAM EDGE OF THE

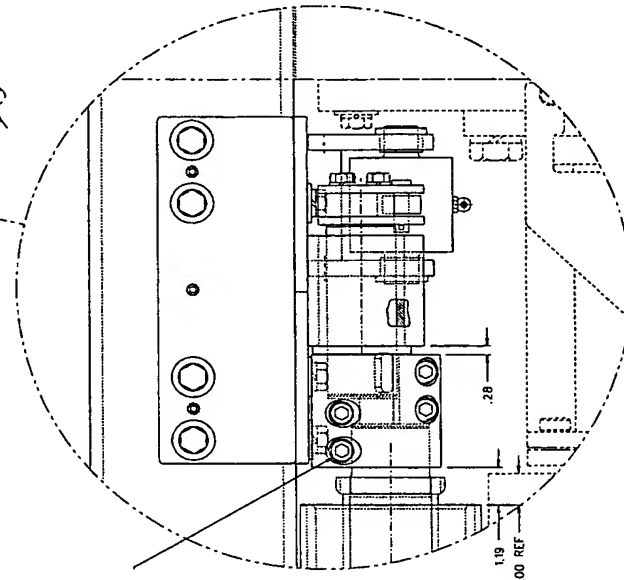
17. USE EXTREME CAUTION. THIS STEP REQUIRES WORKING INSIDE THE MACHINE. IT SHOULD ONLY BE PERFORMED BY EXPERIENCED PERSONNEL WITH THE CARTRIDGE IN THE MACHINE AND THE GLUE UNIT OUT, ACTUATE THE SOFT CONTACT ROLL INTO THE BONDING ROLL WITH THE ROLL ENGAGE.



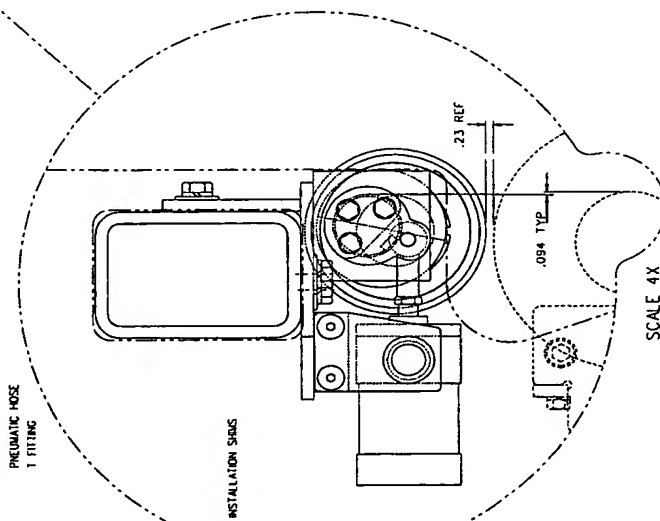
WEB FLOW  
OUT OF PAPER)



SCALE 4X



SCALE 4X



SCALE 4X

[illegible]